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NOTICE OF ALLOWANCE AND FEE(S) DUE

46629

7590

05/27/2010

Siemens Corporation
Intellectual Property Department
170 Wood Avenue South
Iselin, NJ 08830

EXAMINER

PITARO, RYAN F

ART UNIT

PAPER NUMBER

2174

DATE MAILED: 05/27/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/034,491	12/27/2001	James D. Linder	075635.0112	1247

TITLE OF INVENTION: COMPUTER AIDED DESIGN SYSTEM HAVING BUSINESS PROCESS ATTRIBUTES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/27/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS** FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

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466/29 7590 05/27/2010
 Siemens Corporation
 Intellectual Property Department
 170 Wood Avenue South
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Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

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nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/27/2010

EXAMINER	ART UNIT	CLASS-SUBCLASS
PITARO, RYAN F	2174	345-771000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a **Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY AND STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____ Date _____
 Typed or printed name _____ Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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Intellectual Property Department
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Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 2164 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 2164 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability**Application No.**

10/034,491

Applicant(s)

LINDER, JAMES D.

Examiner

RYAN F. PITARO

Art Unit

2174

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the board decision of 2/2/2010.
2. ☒ The allowed claim(s) is/are 1-16, 18-24.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date ____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date ____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other ____.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Matt Anderson on May 12th, 2010.

The application has been amended as follows:

1. (Previously Presented) A hardware data processing system, comprising:
 - a user interface operable to display information to a user and to receive commands from a user accessing a digital model data set;
 - a digital model data set comprising data associated with the form of mechanical structures; and
 - a business process attribute data set linked to the digital model data set such that various elements within the digital model data set are linked to business process attributes within the business process attribute data set such that users of the data processing system are displayed business process attribute display elements when a display element associated with a mechanical component defined by the digital model data set is displayed to the user by the hardware data processing system; and

wherein the business process attribute comprises one of:

- quality information defining a quality level parameter associated with a component represented in the digital model data set;
- safety information defining a safety level parameter associated with a component represented in the digital model data set;
- revision information defining a revision parameter associated with a component represented in the digital model data set; and
- an information address attribute comprising a network address associated with information related to a component associated with data within the digital model data set.

2. (Original) The hardware data processing system of Claim 1 wherein the business process attribute comprises quality information defining a quality level parameter associated with a component represented in the digital model data set.

3. (Previously Presented) A hardware data processing system, comprising:

- a user interface operable to display information to a user and to receive commands from a user accessing a digital model data set;
- a digital model data set comprising data associated with the form of mechanical structures;
- a business process attribute data set linked to the digital model data set such that various elements within the digital model data set are linked to business process

attributes within the business process attribute data set such that users of the data processing system are displayed business process attribute display elements when a display element associated with a mechanical component defined by the digital model data set is displayed to the user by the hardware data processing system;

and wherein the business process attribute comprises safety information defining a safety level parameter associated with a component represented in the digital model data set.

4. (Original) The hardware data processing system of Claim 1 wherein the business process attribute comprises revision information defining a revision parameter associated with a component represented in the digital model data set.

5. (Original) The hardware data processing system of Claim 1 wherein the business process attribute comprises an information address attribute comprising a network address associated with information related to a component associated with data within the digital model data set.

6. (Previously Presented) The hardware data processing system of Claim 5 wherein the information address attribute comprises a hypertext link address that when displayed to a user of the system and activated by the user of a system will result in the activation of a browser program which is operable to retrieve information stored at the information attribute hypertext link address.

7. (Original) The hardware data processing system of Claim 1 and further comprising a knowledge base data set engine coupled to and operable to access various knowledge base data sets, the knowledge base data set engine operable to inferentially apply business process attributes to features within the digital model data set responsive to information linked to such features within the knowledge base data sets accessible to the knowledge base data set engine.

8. (Original) The hardware data processing system of Claim 7 wherein the knowledge base data set engine is operable to automatically inferentially apply a quality information business process attribute to a feature included within the digital model data set.

9. (Original) The hardware data processing system of Claim 7 wherein the knowledge base data set engine is operable to automatically inferentially apply a safety information business process attribute to a feature included within the digital model data set.

10. (Original) The hardware data processing system of Claim 7 wherein the knowledge base data set engine is operable to automatically inferentially apply a revision information business process attribute to a feature included within the digital model data set.

11. (Original) The hardware data processing system of Claim 7 wherein the knowledge base data set engine is operable to automatically inferentially apply an information address link attribute to a feature included within the digital model data set.

12. (Previously Presented) A method of operating a digital design system comprising:

defining digital model data set information specifying the structure of components within an assembly;

defining business process attributes linked to particular features specified within the digital model data set;

displaying instances of features within the digital model data set which are associated with such business process attributes;

displaying business process attribute display instances associated with business process attributes linked to the displayed features within the digital model data set when a display element associated with a mechanical component defined by the digital model data set is displayed to the user by the digital design system; and

further comprising automatically inferentially applying business process attributes to features within the digital model data set through the operation of an automated knowledge base data set engine operable to store associations between potential features which may be used in digital model data sets and inferred business process attributes associated with such features.

13. (Original) The method of Claim 12 wherein the business process attribute comprises a quality information attribute and wherein the business process attribute display instance specifies quality level information associated with the feature to which the quality information business attribute is linked.

14. (Original) The method of Claim 12 wherein the business process attribute comprises a safety information attribute and wherein the business process attribute display instance specifies safety level information associated with the feature to which the safety information business attribute is linked.

15. (Original) The method of Claim 12 wherein the business process attribute comprises a revision information attribute and wherein the business process attribute display instance specifies revision information associated with the feature to which the revision information business attribute is linked.

16. (Original) The method of Claim 12 wherein the business process attribute comprises an information source link and wherein the business process attribute display instance is operable, when activated by a user, to access a network address at which information is stored that is associated with the feature to which the information source link is linked.

17. (Cancelled)

18. (Original) A hardware data processing system, comprising:

a user interface operable to display information to a user and to receive commands from a user accessing a digital model data set;

a digital model data set comprising data associated with the form of mechanical structures;

a business process attribute data set linked to the digital model data set such that various elements within the digital model data set are linked to business process attributes within the business process attribute data set such that users of the data processing system are displayed business process attribute display elements when a display element associated with a mechanical component defined by the digital model data set is displayed to the user by the hardware data processing system; and

a knowledge base data set engine coupled to and operable to access various knowledge base data sets, the knowledge base data set engine operable to inferentially apply business process attributes to features within the digital model data set responsive to information linked to such features within the knowledge base data sets accessible to the knowledge base data set engine.

19. (Original) The hardware data processing system of Claim 18 wherein the business process attribute comprises quality information defining a quality level parameter associated with a component represented in the digital model data set.

20. (Original) The hardware data processing system of Claim 18 wherein the business process attribute comprises safety information defining a safety level parameter associated with a component represented in the digital model data set.

21. (Original) The hardware data processing system of Claim 18 wherein the business process attribute comprises revision information defining a revision parameter associated with a component represented in the digital model data set.

22. (Original) The hardware data processing system of Claim 18 wherein the business process attribute comprises an information address attribute comprising a network address associated with information related to a component associated with data within the digital model data set.

23. (Previously Presented) The hardware data processing system of Claim 22 wherein the information address attribute comprises a hypertext link address that when displayed to a user of the system and activated by the user of a system will result in the activation of a browser program which is operable to retrieve information stored at the information attribute hypertext link address.

24. (Previously Presented) The hardware data processing system of Claim 1 wherein the business process attribute comprises safety information defining a safety level parameter associated with a component represented in the digital model data set.

The following is an examiner's statement of reasons for allowance:

The prior art is silent in teaching a user interface and data set capable of displaying a business process attribute linked and displayed next to a mechanical component comprising quality , safety, revision, or url attributes along with all of the claimed limitations.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RYAN F. PITARO whose telephone number is (571)272-4071. The examiner can normally be reached on 9:00am - 5:30pm Mondays through Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dennis Chow can be reached on 571-272-7767. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ryan F Pitaro/
Primary Examiner, Art Unit 2174